

Serial No. 09/881,673  
Amdt. dated February 25, 2004  
Reply to Office Action of December 03, 2003

Docket No. IK-0020

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently Amended) An apparatus for inputting and displaying data for a refrigerator, comprising:

a touchscreen mounted provided on ~~a front surface of~~ the refrigerator for ~~inputting the data in the form of images that~~ and configured to receive image data written or drawn on the touchscreen by a user has written or drawn;

a memory ~~means for storing device~~ configured to store the image data ~~written or drawn on the touchscreen;~~ and

a control means for performing control of displaying the image data stored in the ~~memory means on the touchscreen or of storing~~ controller configured to store the image data; ~~which are inputted input~~ through the touchscreen[[,]] into the memory ~~means device, and to~~ control the touchscreen so as to display the image data on the touch screen.

2. (Currently Amended) An apparatus for inputting and displaying data for a refrigerator, comprising:

a touchscreen ~~mounted~~ provided on ~~a front surface of~~ the refrigerator for ~~inputting and configured to receive~~ information on ~~foods~~ items stored in the refrigerator in the form of ~~images~~ user generated image data;

a memory ~~means for storing~~ device configured to store the image data on the stored ~~foods inputted~~ items input through the touchscreen; and

a control ~~means for performing control of displaying~~ controller configured to control the touchscreen and the memory device so as to display the image data on the stored ~~items foods, which are stored in the memory means, on the touchscreen or of storing; and to~~ store the image data on the stored items foods, which are inputted through the touchscreen, into the memory ~~means~~ device.

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3. (Currently Amended) The apparatus ~~for inputting and displaying the data for the refrigerator as claimed in~~ of claim 2, wherein the memory ~~means stores the image data on the stored foods into~~ device comprises a plurality of storage areas which are ~~divided into ones respectively corresponding~~ correspond to a respective plurality of food storage chambers provided in the refrigerator, and wherein the memory device is configured to store the image data on the items stored in the refrigerator in an appropriate storage area of the memory device.

4. (Currently Amended) A method for inputting and displaying data for a refrigerator in which a touchscreen is ~~mounted~~ provided on a ~~front surface of~~ the refrigerator and ~~a plurality of~~ data storage areas ~~divided into ones~~ respectively corresponding to a plurality of food storage chambers in the refrigerator are allocated, the method comprising the steps of:

displaying the plurality of ~~the food~~ storage chambers on the touchscreen;

selecting ~~an arbitrary food~~ a storage chamber ~~among from~~ the food plurality of storage chambers displayed on the touchscreen;

inputting information on foods stored in the refrigerator in the form of receiving user generated image data corresponding to items stored in the refrigerator through the touchscreen; and

storing the image data ~~on the stored foods into the~~ in a data storage areas corresponding area which corresponds to the selected food storage chambers chamber.

5. (Currently Amended) The method ~~for inputting and displaying the data for the~~ refrigerator ~~as claimed in~~ of claim 4, wherein when the food storage chambers are displayed in the displaying step, the displaying the plurality of storage chambers further comprises simultaneously displaying image data on the touchscreen which reflects the stored foods items which are stored in the data storage areas corresponding to the respective food storage chambers ~~are simultaneously displayed~~.

6. (Currently Amended) The method ~~for inputting and displaying the data for the refrigerator as claimed in~~ of claim 5, further comprising ~~a step of selecting~~ allowing for selection of some image data to be deleted from the image data ~~on the stored foods~~ displayed on the touchscreen and deleting the selected image data.

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7. (Currently Amended) A method for inputting and displaying data for a refrigerator with a touchscreen provided thereon ~~mounted on a front surface thereof,~~ comprising the steps of:

monitoring touch action of a user made on the touchscreen;

when a schedule management function is ~~touched~~ selected through the touchscreen, displaying a calendar corresponding to a relevant month on the touchscreen;

when a specific date ~~region~~ of the displayed calendar is ~~touched~~ selected, providing an input screen for inputting image data ~~on schedules and daily life~~ related to information at for the specific date ~~into an address allocated for the touched date region;~~

~~inputting the~~ receiving image data ~~on the schedules and the daily life~~ generated by a user related to information for the specific date into the input screen ~~by a user;~~

storing the image data ~~on the schedules and the daily life information~~ written input through the touchscreen ~~into the address allocated for the touched date region;~~ and

when ~~the~~ a present date is consistent with the date corresponding to the image data ~~on the schedules and the daily life information~~, displaying the image data on a first screen of the relevant date upon display thereof.

8. (Currently Amended) The method ~~for inputting and displaying the data for the refrigerator as claimed in~~ of claim 7, wherein ~~schedule input display images are~~ image data is displayed in a region of the touchscreen displaying the specific date region in which the image data ~~on the schedules and the daily life information is inputted~~ input.

9. (Currently Amended) The method ~~for inputting and displaying the data for the refrigerator as claimed in~~ of claim 7, wherein ~~in a case where the inputted schedules are~~ when information is repeated in a predetermined cycle, the method further comprises ~~the steps of:~~

inputting the repetition cycle;

determining whether a date on which the schedules are due information recurs depends on a solar calendar or a lunar calendar and storing an appropriate repetition cycle;

calculating the a next relevant date based on the repetition cycle and according to one of the solar and lunar calendars;

storing the calculated date into a memory; and

when the present date is consistent with the calculated date, displaying the stored ~~schedules~~ information on a main screen of the touchscreen.

10. (New) The apparatus of claim 1, wherein the memory device comprises a plurality of storage areas corresponding to a respective plurality of storage chambers in the refrigerator.

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11. (New) The apparatus of claim 10, wherein the memory device is further configured to store the image data input by a user in a corresponding storage area of the memory device.

12. (New) The apparatus of claim 10, wherein the controller comprises a processor configured to process a plurality of coordinates corresponding to a plurality of touch signals applied to the touchscreen, and to store or to retrieve corresponding information from a corresponding storage area of the memory device based on said plurality of touch signals.

13. (New) The apparatus of claim 1, wherein the controller is further configured to delete image data from the memory device based on a touch signal applied to the touch screen.

14. (New) The apparatus of claim 1, wherein the touchscreen is further configured to be mounted on a front surface of the refrigerator.

15. (New) The apparatus of claim 2, wherein the touchscreen is further configured to be mounted on a front surface of the refrigerator.

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16. (New) The apparatus of claim 2, wherein the items stored in the refrigerator comprise food items.

17. (New) The method of claim 4, wherein the touchscreen is further configured to be mounted on a front surface of the refrigerator.

18. (New) The method of claim 4, wherein the items stored in the refrigerator comprise food items.

19. (New) The apparatus of claim 7, wherein the touchscreen is further configured to be mounted on a front surface of the refrigerator.

20. (New) The apparatus of claim 7, wherein the image data is stored into an address allocated for the specific date.

21. (New) A method for inputting and displaying information on a product with a touchscreen mounted thereon, comprising:

displaying a main menu comprising a plurality of functions on the touchscreen;

allowing for selection of a function from the plurality of functions;

when a schedule management function is selected, displaying a calendar which corresponds to a relevant month on the touchscreen;

when a specific date of the displayed calendar is selected, providing an input screen configured to receive image data written or drawn thereon by a user and representing information related to the specific date;

receiving the image data representing information related to the specific date through the input screen;

storing the image data; and

displaying the stored image data on a first display screen when a present date is consistent with the specific date.

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22. (New) the method of claim 21, wherein the image data is stored into an address allocated for the specific date.

23. (New) The method of claim 21, wherein the product comprises a home appliance.

24. (New) The method of claim 21, wherein the plurality of functions comprises at least the schedule management function, a perishable management function, and a product management function.

25. (New) The method of claim 21, wherein when information is repeated in a predetermined cycle, the method further comprises:

determining whether a date on which the information recurs depends on a solar calendar or a lunar calendar and storing an appropriate repetition cycle;

calculating a next relevant date based on the repetition cycle and one of the solar and lunar calendars;

storing the calculated date into a memory; and

when the present date is consistent with the calculated date, displaying the stored information on a main screen of the touchscreen.

26. (New) An apparatus for inputting and displaying data on a product, comprising:  
a touchscreen mounted adjacent the product and configured to allow for input of image data generated by a user;  
a memory device configured to receive and to store the image data; and  
a controller configured to control the memory device and the touchscreen so as to store the image information in the memory device, and to display the image information on the touchscreen.

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Cmt 27. (New) The apparatus of claim 26, wherein the image data comprises image data written by a user which represents information on items stored within the product.

28. (New) The apparatus of claim 27, wherein the product comprises a refrigerator and wherein the stored items comprise perishable food items.

29. (New) The apparatus of claim 26, wherein the image data comprises image data written by a user which represents schedule related information.

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*as added*  
30. (New) The apparatus of claim 29, wherein the controller is further configured to control the touchscreen and the memory device so as to allow a user to view and update schedule related information on the touchscreen.

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